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FEDERAL - STATE COOPERATIVE
SNOW SURVEYS and WATER SUPPLY FORECASTS
for
WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above
in cooperation with the U. S. Forest Service, Bureau of Reclamation,
National Park Service, and other Federal, State and local organiza-
tions.

AS OF
MAR. 1, 1957

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS

Snow surveys in the west are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its co-operators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Head, Water Supply Forecasting Section
Soil Conservation Service
209 S. W. 5th Avenue
Portland 4, Oregon

BASIN REPORTS:

Colorado, Rio Grande,.. Issued monthly February through May by SCS and Colorado and Platte-Arkansas Experiment Station, Fort Collins, Colorado.*
River Basins

Columbia River Issued monthly January through May by Soil Conservation Service, Boise, Idaho.*

Upper Missouri Issued monthly February through May by SCS and Montana Agricultural Experiment Station, Bozeman Montana.*

West-Wide Water Issued April 1 by Soil Conservation Service and Co-Supply Outlook operators, Portland, Oregon.

STATE REPORTS:

Arizona Issued semi-monthly January 15 through April 1 by SCS and Salt River Valley Water Users Association, Phoenix, Arizona.*

Nevada Issued monthly February through April by SCS and Nevada State Engineer, Reno, Nevada.*

Oregon Issued monthly January through May by SCS, Portland, Oregon, and Oregon Agricultural Experiment Station.*

Utah Issued monthly January through May by SCS, Salt Lake City, Utah, and State Engineer of Utah and Utah Agricultural Experiment Station.*

Washington Issued monthly February through May by SCS, Spokane, Washington, and State Department of Conservation and Development.*

Wyoming Issued monthly February through May by SCS, Casper, Wyoming, and State Engineer of Wyoming.*

*Special reports are issued as needed.

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Building, Victoria, B. C.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacramento, California.

The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States" may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.

FEDERAL - STATE COOPERATIVE
SNOW SURVEYS AND WATER FORECASTS
FOR
WYOMING

Issued
March 1, 1957

Report Prepared
by
George W. Peak
Snow Survey Supervisor

Soil Conservation Service
and
State of Wyoming

345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins
State Conservationist
Soil Conservation Service

L. C. Bishop
State Engineer of Wyoming
Cheyenne, Wyoming

PRELIMINARY WATER SUPPLY OUTLOOK
FOR
WYOMING
MARCH 1, 1957

SNAKE RIVER BASIN

Soil moisture in the Snake River Basin above Moran is 85 percent of normal, however the snow pack in the basin is about 113 percent of average. The seasonal runoff is, therefore, computed at 108 percent of normal, which is the equivalent of an April to September yield of 929,000 acrefeet into Jackson Lake. Pacific Creek is somewhat higher at 113 percent but the Buffalo Fork, Gros Ventre and Hoback are down to 88 percent of average. The volume flow of the Snake above Palisades will be 2,900,000 acrefeet of water, which is 98 percent of average. The Salt River is expected to come in at 103 percent of the fifteen year average.*

Current storage in Jackson Lake is 119,600 acrefeet, which is 24 percent of normal, however, a considerable amount of winter flow was dropped to Palisades, which is now collecting water and has a current storage of 376,700 acrefeet.

* Federal, state and private agencies throughout the west have chosen the fifteen year period from 1938 to 1952 as the interval from which the averages, or normal is obtained.

GREEN RIVER, BASTN

The snow pack in the Green River is 99 percent of normal, however a soil moisture deficit will reduce the discharge of this basin to 92 percent at Warren Bridge, 93 percent at Fontenelle and 94 percent of average, or 1,220,000 acrefeet at Linwood, Utah. North Piney and the New Fork Creeks are expected to yield 116 percent and 93 percent respectively. Smith's Fork and the Bear River watersheds indicate runoffs of 94 percent near Border and 104 percent near Evanston.



NORTH PLATTE BASIN

The March 1, 1957, snow packs on the North Platte water shed in Wyoming and Colorado have dropped during the past month to 120 percent of normal. There is an extremely, heavy deficit in the soil moisture throughout this basin, which must first be brought to field capacity by snow melt with the resultant loss to runoff.

Streamflow during April to September, 1957 should be near average or a little above. Because of lack of current reservoir storage, water shortage may be expected for some irrigated areas of Eastern Wyoming and Western Nebraska. Should snow fall for the next two months and precipitation next summer be deficient, a water shortage can be expected. The most probable outlook at this time is considered as fair. Water supply will not be adequate in the Wheatland area served by the Laramie River, but prospects are better than in 1956.

WIND RIVER BASIN

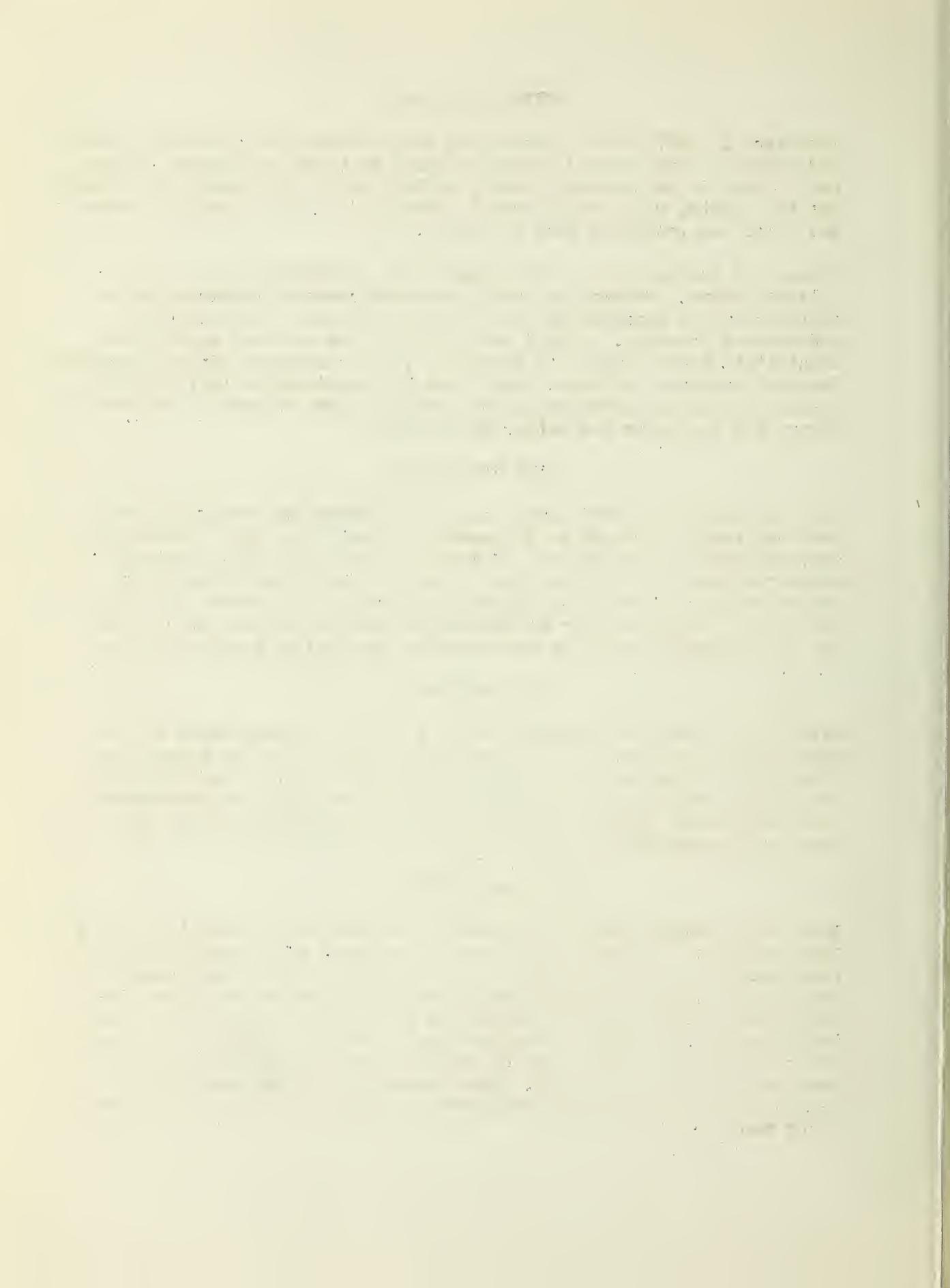
Snow surveys in the Wind River Basin above Boysen Reservoir indicate deficits ranging from 16 to 32 percent for March 1, 1957. Boysen reservoir is storing 39 percent of capacity, which is 180 percent of its short time average for this time of year. The discharge into this reservoir is expected to be 690,000 acrefeet, or 74 percent of normal. The flow of the Wind River at Riverton will be 68 percent of average, and 72 percent of normal is expected for the Pogo Agie near Riverton.

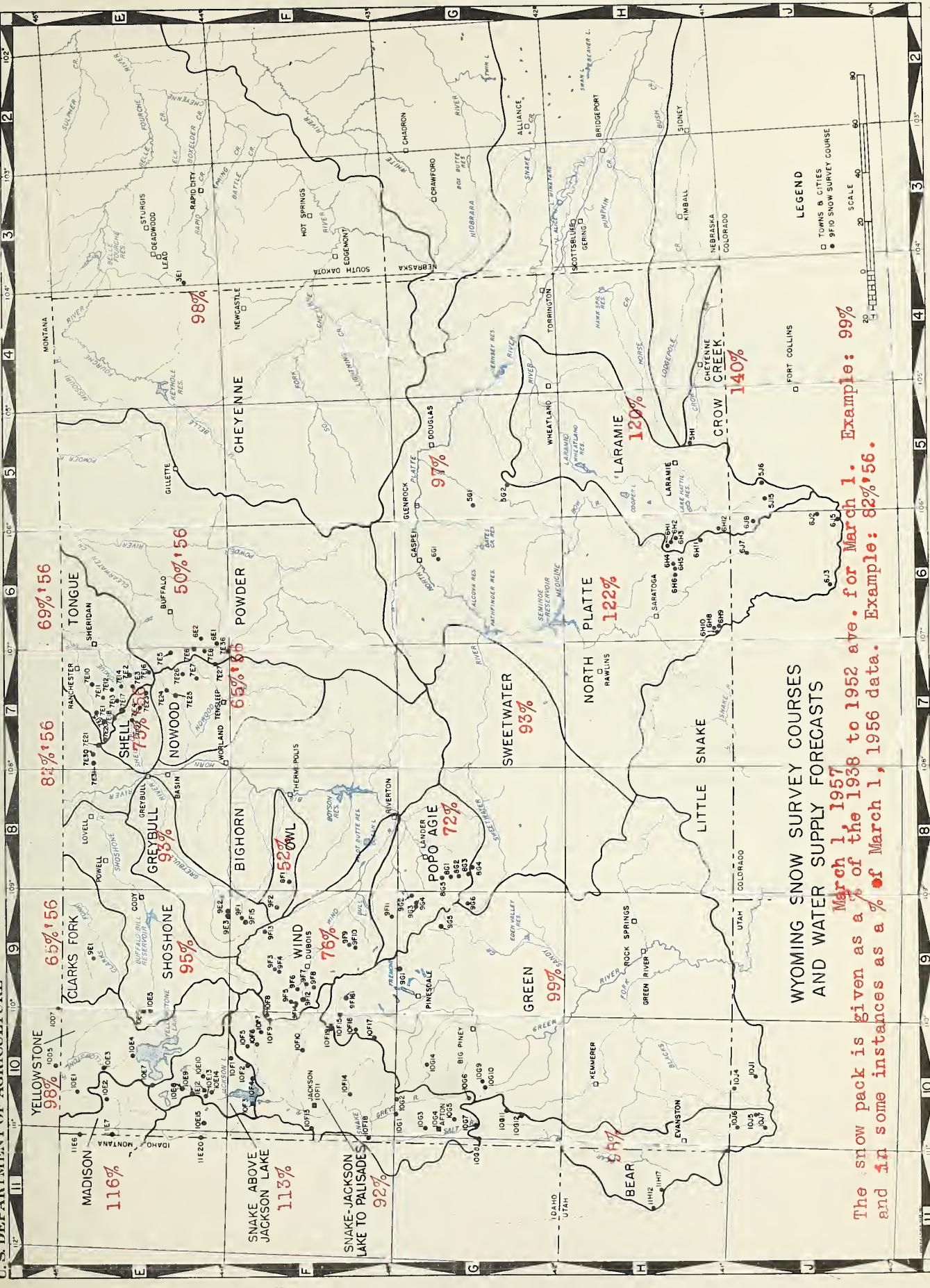
BIG HORN BASIN

Below Boysen, snow surveys indicate a sub-normal accumulation of the water content in the snow. Shortages are expected in the stream-flow from the Owl Creek range. To the north, Buffalo Bill reservoir contains 34 percent of normal for this time of year, with an anticipated seasonal flow of 740,000 acrefeet for the Shoshone River above the reservoir, which is 95 percent of average.

BIG HORN MOUNTAINS

This is the second year of data for the network established in the Big Horn Mountains. Generally speaking, prospective water supplies will be below normal. At present, the snow courses throughout these mountains are standing at 50 to 82 percent of the snow cover for this time last year. There has been very little snow fall during the past month as indicated by a comparison with last month records. Excepting for the drifted areas the trails left by the oversnow equipment, a month ago, were plainly visable March 1. Heavy snows for the balance of the winter will be required for this area, in order to anticipate adequate water supplies.





INDEX TO WYOMING SNOW COURSES

LOCATION													LOCATION														
Drainage Basin and Course Name	Wyoming Number	Elev.	Sec.	Lat.	Twp.	Range	Record	Mean	Max.	Min.	Days*	By	Drainage Basin and Course Name	Wyoming Number	Elev.	Sec.	Lat.	Twp.	Range	Record	Mean	Max.	Min.	Days*	By		
MISSOURI RIVER DRAINAGE																											
MADISON RIVER																											
Norris Basin	10E2	7500	44°44'			110°42'	1936	3.4		2			Pole Mountain #2	SH1	8700	35	15N	72W	1936	2,3,4,5	1,4						
21 Mile m	11E6	7150	1	11S	5E	1934	1,2,3,4,5	6					Albany	SH11	9400	18	14N	70W	1949	2,3,4,5	1						
West Yellowstone	11E7	6700	34	13S	5E	1934	1,2,3,4,5	6					Bottle Creek	SH8	8200	24	14N	85W	1936	2,3,4,5	1,4						
YELLOWSTONE																											
Canyon	10E3	7750	44°44'			110°30'	1936	1,2,3,4,5	1				Boxelder	SH1	9000	51	14N	75W	1950	2,3,4,5	1						
Cooke City	10D7	7400	25	9S	14E	1937	1,2,3,4,5	2					Casper Mountain	SH1	8700	16	32N	75W	1954	1,2,3,4,5	1						
Crescent Mountain	10D5	8400	24	9S	9E	1935	3,4		4				Collins Ranch	SH3	9300	21	5N	82W	1936	2,3,4,5	1						
East Entrance	10E6	7000	17	52S	10SW	1948	1,2,3,4,5	2					Park Park	SH12	9200	21	15N	70W	1936	2,3,4,5	4						
Lake Camp	10E4	7850	44°34'			110°24'	1937	1,2,3,4,5	1				Lebona	SH2	8450	11	27N	74W	1949	2,3,4,5	1						
Lupine Creek	10E1	7300	44°44'			110°37'	1938	1,2,3,4,5	2				North Barrett Creek	SH2	615	9400	50	16N	80W	1936	2,3,4,5	1,4					
Thumb Divide	10E7	7900	44°22'			110°35'	1946	2,3,4	5				North French Creek	SH4	10200	27	16N	80W	1938	2,3,4,5	1,4						
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2					North French Creek 2	SH14	10200	27	16N	80W	1956	2,3,4,5	1,4						
CLARK'S FORK																											
Lodgepole	9E1	8200	32	66N	10GW	1940	2,3,4,5	1,4					Pole Mountain #2	SH1	8700	35	15N	72W	1936	2,3,4,5	1,4						
MIND RIVER																											
Big Horn	9H12	6800	35	42N	109W	1955	2,3,4,5	1					Albion	SH11	9400	18	14N	70W	1949	2,3,4,5	1						
Brook Lake	10H8	9800	23	44N	110W	1939	2,3,4,5	1					Bottle Creek	SH8	8200	24	14N	85W	1936	2,3,4,5	1,4						
Upper Bear Creek	9H4	8800	15	43N	107W	1948	2,3,4,5	1					Boxelder	SH1	9000	51	14N	75W	1950	2,3,4,5	1						
Diamond	9H10	10000	9	38N	105W	1948	2,3,4,5	1					Casper Mountain	SH1	8700	16	32N	75W	1954	1,2,3,4,5	1						
Dry Creek	9H9	9500	34	4N	105W	1948	2,3,4,5	1					Collins Ranch	SH3	9300	21	5N	82W	1936	2,3,4,5	1						
Duloir	9H6	8750	27	42N	109W	1940	2,3,4,5	1					Park Park	SH12	9200	21	15N	70W	1936	2,3,4,5	4						
East Fork	9H13	9200	23	44N	109W	1955	2,3,4,5	1					Lebona	SH2	8450	11	27N	74W	1949	2,3,4,5	1						
Geiser Creek	9H7	8500	12	41N	109W	1948	2,3,4,5	1					North Barrett Creek	SH2	615	9400	50	16N	80W	1936	2,3,4,5	1,4					
Little Wash	9H8	9500	24	41N	109W	1948	2,3,4,5	1					North French Creek	SH4	10200	27	16N	80W	1938	2,3,4,5	1,4						
Sheridan N.S.	9H5	7500	3	41N	109W	1955	2,3,4,5	1					North French Creek 2	SH14	10200	27	16N	80W	1956	2,3,4,5	1,4						
Sheridan R.S.	9H14	7500	3	41N	107W	1940	2,3,4,5	1					Northgate	SH7	6500	7	11N	79W	1950	2,3,4,5	1						
T-w-cross Ranch	9H3	8000	1	43N	107W	1940	2,3,4,5	1					Old Bottle	SH10	9800	29	14N	86W	1936	2,3,4,5	1						
Twopoint Ranch	10H9	9600	29	44N	110W	1936	2,3,4,5	5					Park View	SH2	9200	24	5N	78W	1936	2,3,4,5	1						
POPO ASIE RIVER																											
Blue Ridge	8E2	9500	23	31N	101W	1948	2,3,4,5	1					Popo Asie	SH1	8700	7	27N	117W	1951	2,3,4,5	1						
Bruce's Camp	8E5	8500	24	32N	101W	1948	2,3,4,5	1					Big Park	SH11	9400	13	2N	15E	1931	4							
Goat Creek	9E3	8500	22	35N	101W	1948	2,3,4,5	1					Big Bull	SH2	8450	11	27N	116W	1951	2,3,4,5	1						
Goat Creek	9E4	9000	22	35N	101W	1948	2,3,4,5	1					Dutch R.S.	SH5	9700	52	17N	105W	1936	2,3,4,5	1						
Louise Park R.S.	9F3	9500	23	3W	104W	1940	2,3,4,5	1					Loomis R.S.	SH6	9700	52	17N	105W	1936	2,3,4,5	1						
Scammon Divide	8E1	8500	3	31N	101W	1939	2,3,4,5	1					Old Fort	SH15	7600	40	40N	110W	1948	2,3,4,5	1						
South Pass	8E3	9000	13	30N	101W	1939	2,3,4,5	1					Popo Asie	SH1	8700	30	3N	108W	1956	2,3,4,5	1						
St. Lawrence R.S.	9F11	9000	26	1N	4W	1940	2,3,4,5	1					Popo Asie	SH1	8700	30	3N	108W	1948	2,3,4,5	1						
Trout Creek	9E2	8400	5	25	2W	1948	2,3,4,5	1					Popo Asie R.S.	SH1	9500	33	3N	13E	1930	4							
OWL GREEK																											
Beaver Mill	9F2	8900	6	43N	101W	1948	2,3,4,5	1					Big Creek	SH1	8700	27	15N	117W	1951	2,3,4,5	1						
Owl Creek	8F1	8700	36	43N	101W	1948	2,3,4,5	1					Aster Creek	SH8	7700	44°17'	1919	2,3,4,5	5								
GREYBULL RIVER																											
Timber Creek	9E2	8800	25	47N	103W	1948	2,3,4,5	1					Big Creek	SH1	6500	3	46N	113W	1919	2,3,4	5						
Timber Creek #2	9E3	8600	25	47N	103W	1955	2,3,4,5	1					Aster Creek	SH8	7700	44°17'	1919	2,3,4	5								
Wood River #1	9F1	8000	28	46N	103W	1939	2,3,4,5	1					Bass Camp	SH2	6900	20	46N	113W	1947	2,3,4	5						
Wood River #2	9F15	8000	28	46N	103W	1955	2,3,4,5	1					Coulter Creek	SH10	7600	44°09'	1919	2,3,4	5								
SHOSHONE RIVER																											
East Entrance	10E6	7000	17	82N	109W	1948	1,2,3,4,6	2					Grass Lake	SH15	7200	6	46N	117W	1940	2,3,4,5	5						
Sylvan Pass	10E5	7100	12	82N	110W	1936	1,2,3,4,6	2					Huckleberry Divide	SH14	7200	32	46N	118W	1919	2,3,4	5						
MOWDOW CREEK																											
Big Spring Camp	7E24	9500	7	51N	87W	1956	2,3,4,5	1					Lewis Lake Divide	SH9	8000	13	15N	117W	1940	2,3,4,5	5						
Kunkers Pass	7E28	9700	11	48N	85W	1960	2,3,4,5	1					Moore Divide	SH1	8700	30	32N	118W	1948	2,3,4,5	1						
North Powder	7E36	8300	20	47N	86W	1956	2,3,4,5	1					North Powder	SH1	8700	30	32N	118W	1956	2,3,4,5	1						
Onton Gulch	7E27	8100	31	48N	85W	1956	2,3,4,5	1					Popo Asie	SH14	6500	9	29N	118W	1956	2,3,4,5	1						
Tensleep Lake	7E26	9075	30	50N	86W	1956	2,3,4,5	1					Popo Asie	SH1	8700	30	32N	118W	1956	2,3,4,5	1						
Tensleep R.S.	7E7	8300	30	49N	86W	1935	2,3,4,5	1					Popo Asie	SH1	8700												

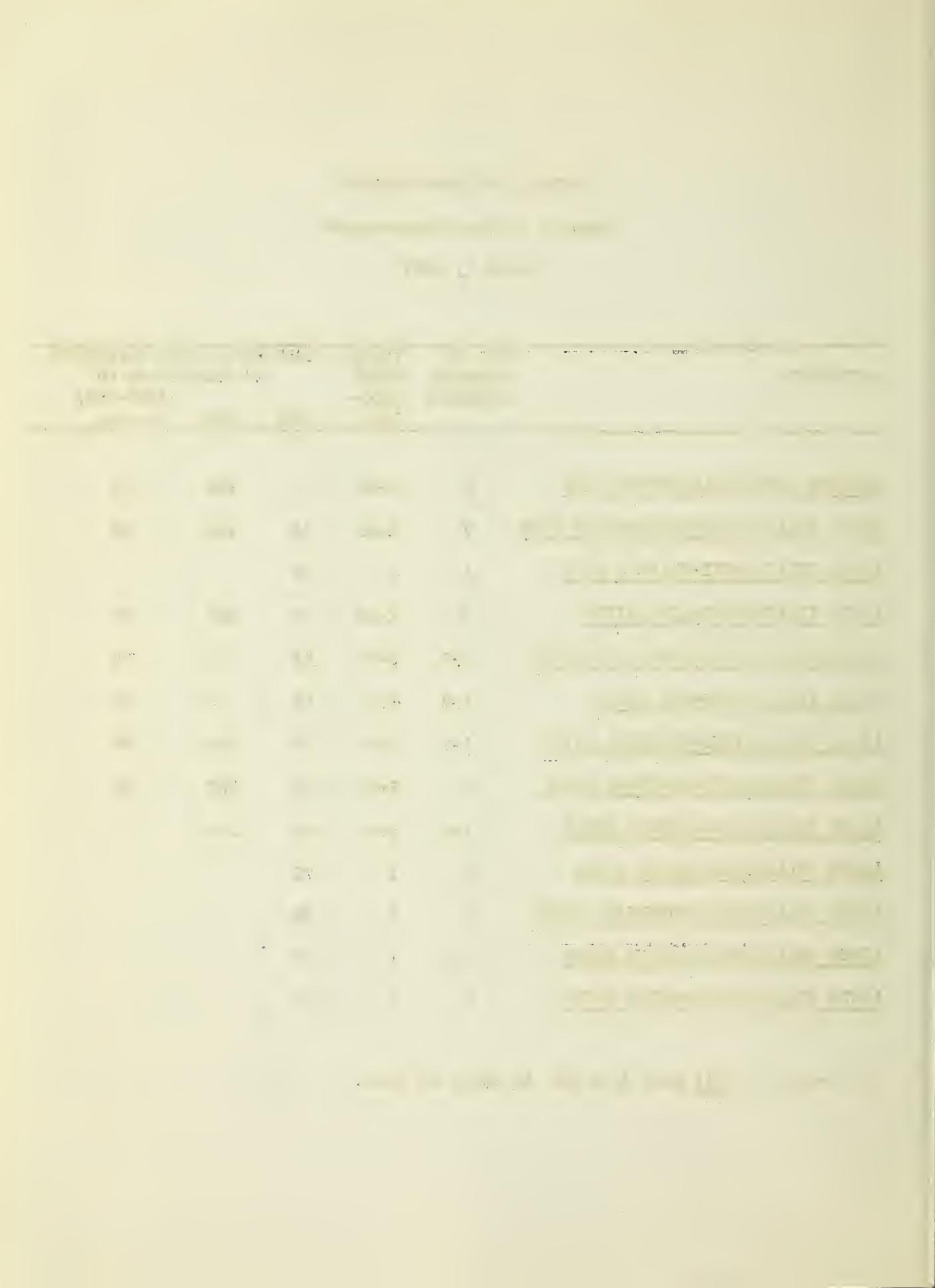
COOPERATIVE SNOW SURVEYS

Summary of Snow Measurements

March 1, 1957

WATERSHEDS	NO. OF COURSES AVERAGED	YEARS USED* 1938- 1952	1957 SNOW WATER EXPRESSED AS PERCENTAGE OF 1938-1952		
			1956	1955	Average
MADISON RIVER-YELLOWSTONE PARK	3	14-23	77	150	116
UPPER YELLOWSTONE-YELLOWSTONE PARK	7	8-20	66	139	98
LOWER YELLOWSTONE-CLARK'S FORK	1	1	65		
LOWER YELLOWSTONE-WIND RIVER	9	8-19	60	138	76
LOWER YELLOWSTONE-POPO AGIE RIVER	6-7	8-17	53	93	72
LOWER YELLOWSTONE-OWL CREEK	1-2	7-8	52	77	52
LOWER YELLOWSTONE-GREYBULL RIVER	1-2	2-8	83	140	93
LOWER YELLOWSTONE-SHOSHONE RIVER	2	8-13	69	167	95
LOWER YELLOWSTONE-NOWOOD CREEK	1-6	1-2	65	113	
LOWER YELLOWSTONE-SHELL CREEK	6	1	75		
LOWER YELLOWSTONE-PORCUPINE CREEK	2	1	82		
LOWER YELLOWSTONE-TONGUE RIVER	15	1	69		
LOWER YELLOWSTONE-POWDER RIVER	5	1	50		

* Average of all past data for 13 years or less.



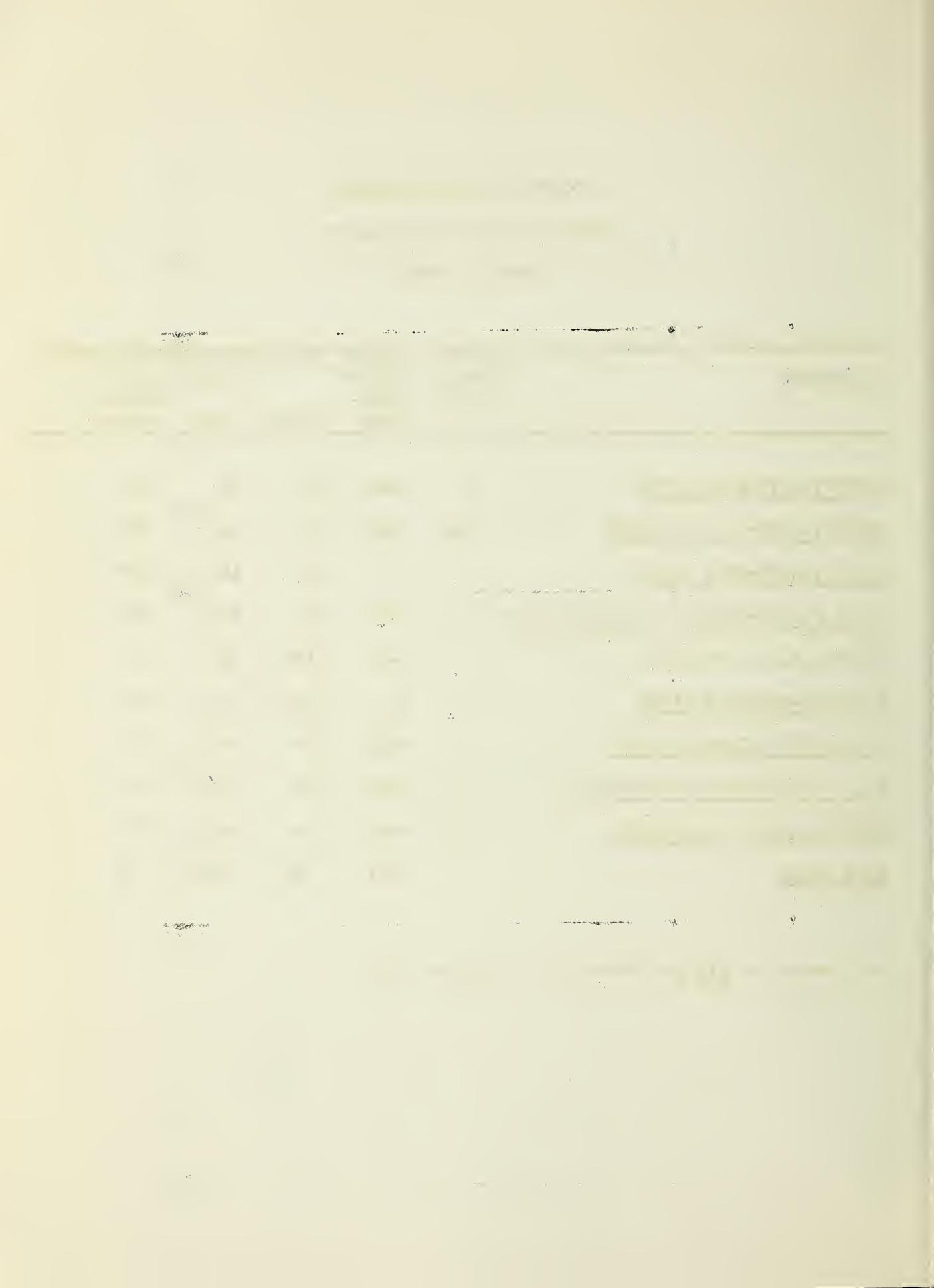
COOPERATIVE SNOW SURVEYS

Summary of Snow Measurements

March 1, 1957

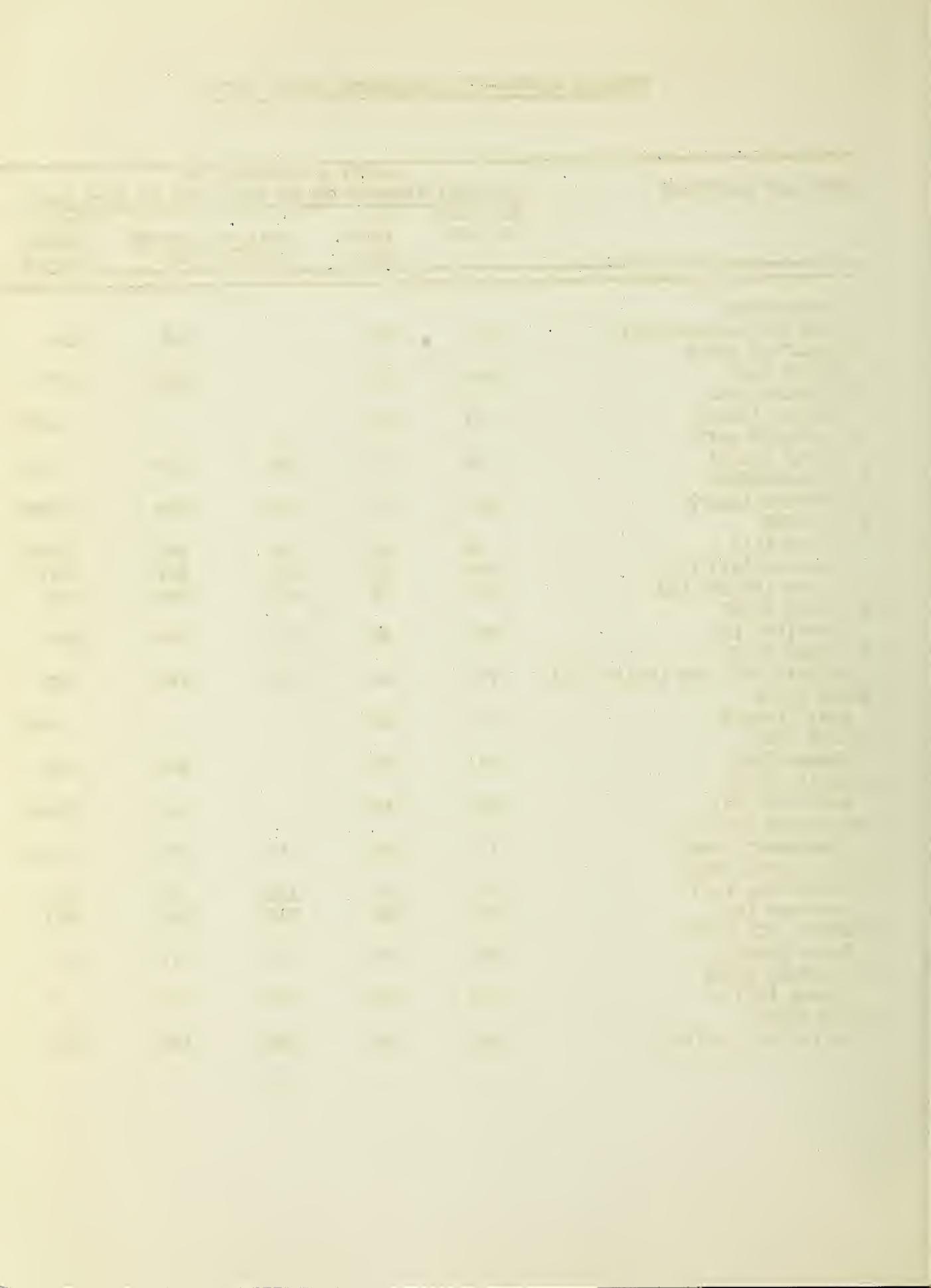
WATERSHEDS	NO. OF COURSES AVERAGED	YEARS USED * 1938- 1952	1957 SNOW WATER EXPRESSED AS PERCENTAGE OF 1938-1952		
			1956	1955	Average
<u>NORTH PLATTE-SWEETWATER</u>	2	16-20	62	89	93
<u>NORTH PLATTE-LARAMIE RIVER</u>	8-9	8-21	81	158	120
<u>NORTH PLATTE-CROW CREEK</u>	1	21	95	133	140
<u>NORTH PLATTE-ABOVE SEMINOE RESERVOIR</u>	15	7-21	94	146	122
<u>NORTH LARAMIE MOUNTAINS</u>	2	7-8	123	91	97
<u>MISSOURI-CHEYENNE RIVER</u>	1	13	132	77	98
<u>UPPER COLORADO-GREEN RIVER</u>	8	5-20	74	146	99
<u>SNAKE RIVER-ABOVE JACKSON LAKE</u>	12	10-27	73	153	113
<u>JACKSON LAKE TO PALISADES</u>	16	7-21	69	142	92
<u>BEAR RIVER</u>	4	5-21	69	149	98

* Average of all past data for 13 years or less.



WYOMING STREAM-FLOW FORECASTS MARCH, 1957

BASIN AND TRIBUTARY	April - September 30				
	FORECAST RUNOFF	Seasonal Stream-Flow in Thousands of Acre Feet			15-Yr. Average 1938-52
		% 15-Yr. Ave. Avg.	Measured 1955	Runoff 1954	
MADISON RIVER					
West Yellowstone (at)	202	102		219	198
YELLOWSTONE RIVER					
Corwin (at)	1760	94		2014	1870
NORTH POPO AGIE					
Milford (near)	71	82			83**
LITTLE POPO AGIE					
Lander (near)	38	72	25	39	53**
POPO AGIE RIVER					
Riverton (near)	250	72	171	230	345**
WIND RIVER					
Dubois (at)	88	86	66	105	102**
Riverton (at) (1)	350	68	101	287	511
Boysen (below) (2)	690	74	401	629	939
BIG HORN RIVER					
Kane (at) (2)	930	69	703	696	1344
SHOSHONE RIVER					
Buffalo Bill Dam (below) (3)	740	95	566	788	823
SHELL CREEK					
Shell (near)	63	85			74**
CLARKS FORK					
Chance (at)	551	95		600	580
LARAMIE RIVER					
Jelm (at) (4)	108	103		46	105*
ENCAMPMENT RIVER					
Encampment (near)	167	104	86	72	160*
NORTH PLATTE RIVER					
North Gate (at)	270	110	128	69	245
Saratoga (at)	715	109	319	234	657
MEDICINE BOW RIVER					
Hanna (near)	100	90	51	17	111
SWEETWATER RIVER					
Alcova (at)	66	90	35	45	73
GREEN RIVER					
Warren Bridge (at)	306	92	253	354	333



WYOMING STREAM-FLOW FORECASTS MARCH, 1957

BASIN AND TRIBUTARY	April - September 30				
	FORECAST RUNOFF	Seasonal Stream-Flow in Thousands of Acre Feet			
		% 15-Yr. AVG.		Measured 1955	Runoff 1954
					15-Yr. Average 1938-52
NORTH PINEY CREEK	43	116		35	37
Mason (near)					
NEW FORK CREEK	232	93		259	248
Boulder (near)					
GREEN RIVER	870	93			931
Fontenelle (at)	1220	94		901	1300
Linwood (at) Utah					
SNAKE RIVER	929	108	738	1010	858
Moran (at) (5)					
PACIFIC CREEK	138	113	142	230	166**
Moran (near)					
BUFFALO FORK	315	88	315	418	356**
Moran (near)					
GROS VENTRE	231	88	199	293	261**
Kelly (at)					
HOBACK	340	88	290	448	386**
Jackson (near)					
SNAKE RIVER	2,900	98	2516	3250	2949**
State Line (at) (5)	3,800	99	2925	4001	3834
Heise (at) (5)					
SALT RIVER	372	103	231	287	360
BEAR RIVER	148	104	74	55	142
Evanston (near)	112	97	26	15	116*
Randolph (near)	266	95	116	100	281
Harer (at) Idaho					
SMITHS FORK	107	94	78	89	114*
Border (near)					

All stream data taken from observed flow records with the following exceptions:

- (1) Observed flow corrected for storage in Bull Lake and Pilot Butte reservoirs.
- (2) Observed flow corrected for storage in Boysen, Bull Lake and Pilot Butte Reservoirs.
- (3) Observed flow corrected for storage in Buffalo Bill Reservoir and Hart Mountain Diversion.
- (4) Observed flow corrected for Colorado diversion above station.
- (5) Observed flow corrected for Jackson Lake Storage.

* Less than 15.

** Estimated 1938-52 average.

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev. of Survey (In.)	1957 Date	SNOW COVER MEASUREMENTS			Past record Water Content (In.)	1938-52 Yrs. of Previous Average Record
				Snow Depth (In.)	Water Content (In.)	1956		
Morris Basin	10E2	7500	3/1	39	9.1	12.5	7.2	8.2** 14
21 Mile ^m	11E6	7150	2/27	60	17.5	22.5	11.1	14.5 23
West Yellowstone ^m	11E7	6700	2/26	41	11.8	14.8	7.3	10.4 23

MADISON RIVER - YELLOWSTONE PARK

Morris Basin	10E2	7500	3/1	39	9.1	12.5	7.2	8.2** 14
21 Mile ^m	11E6	7150	2/27	60	17.5	22.5	11.1	14.5 23
West Yellowstone ^m	11E7	6700	2/26	41	11.8	14.8	7.3	10.4 23

UPPER YELLOWSTONE - YELLOWSTONE PARK

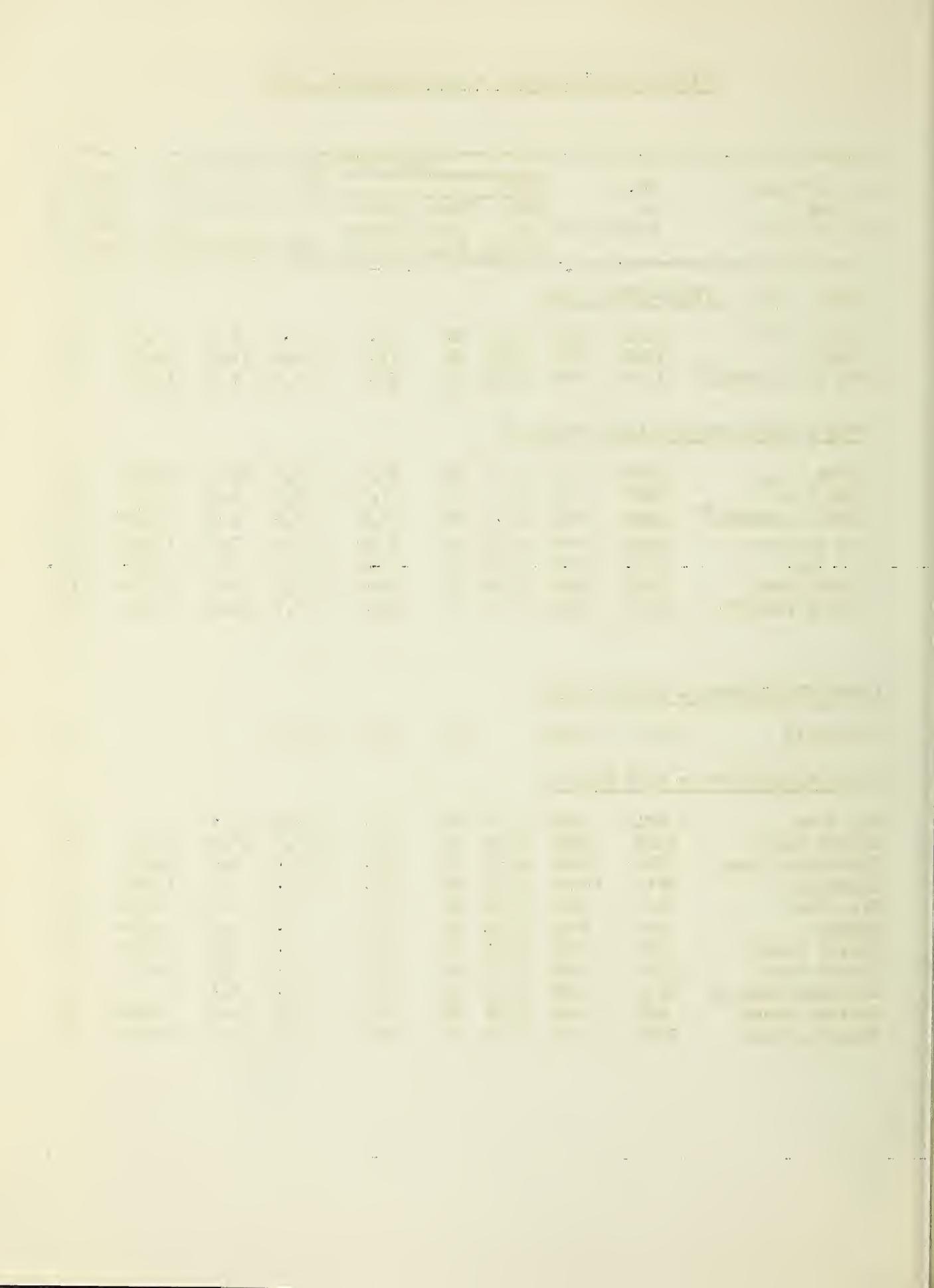
Canyon	10E3	7750	2/28	50	14.8	18.7	10.2	10.8** 18
Cooke City ^m	10D7	7400	3/2	31	7.7	9.6	4.4	7.0 20
Crevice Mountain ^m	10D5	8400	2/28	26	5.3	7.9	5.2	8.3** 18
East Entrance	10E6	7000	2/28	41	10.9	15.2	7.1	11.6* 8
Lake Camp	10E4	7850	2/28	37	7.4	17.5	5.3	8.8** 17
Lupine Creek	10E1	7300	2/28	38	9.8	13.4	9.2	8.8** 17
Thumb Divide***	10E7	7900	2/27	74	19.8	33.1	13.0	22.1* 10

LOWER YELLOWSTONE - CLARK'S FORK

Lodgepole	9E1	8200		37	9.2	14.2		1
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LOWER YELLOWSTONE - WIND RIVER

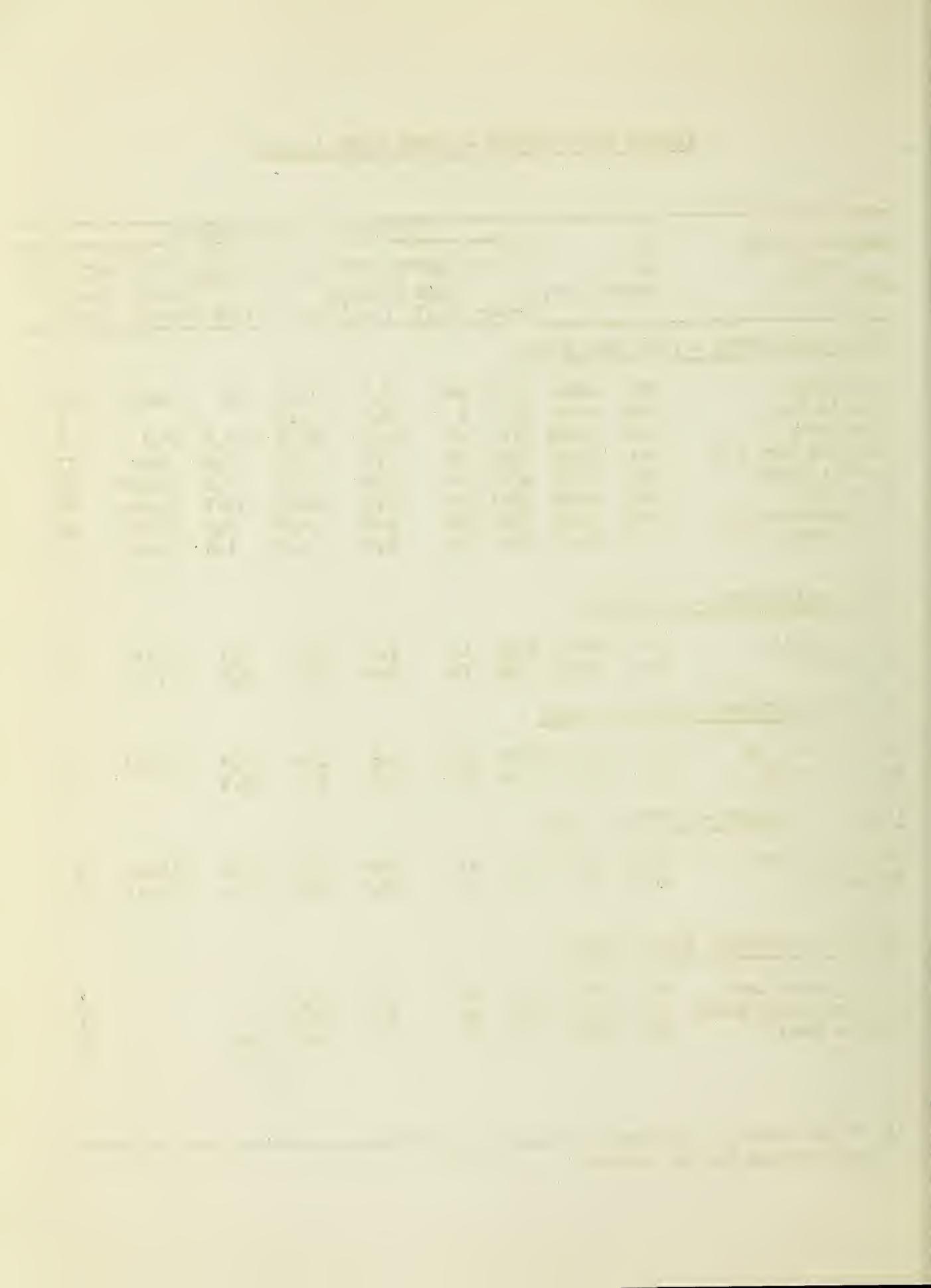
Big Warm	9F12	8800	2/19	29	6.7	11.3	4.1	2
Brooks Lake	10F8	9200	2/19	54	17.5	28.1	14.9	21.4 19
Burroughs Creek	9F4	8800	2/21	38	9.2	18.1	7.3	14.6* 8
Dinwoodie	9F10	10000	2/22	35	10.0	13.3	5.0	11.9* 8
Dry Creek	9F9	9500	2/22	20	4.0	8.0	2.0	6.4* 8
DuNoir	9F6	8750	2/19	22	5.2	9.5	3.3	8.0** 16
Geyser Creek	9F7	8500	2/20	24	5.2	9.1	3.4	7.9* 8
Little Warm	9F8	9500	2/20	46	11.7	20.1	7.3	15.7* 8
Sheridan R.S. #2	9F14	7500	2/19	23	5.6	9.4	3.3	2
T-Cross Ranch	9F3	8000	2/21	22	5.2	8.9	2.9	6.4** 16
Togwotee Pass	10F9	9600	2/28	73	22.6	36.2	19.4	27.6* 7



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1957

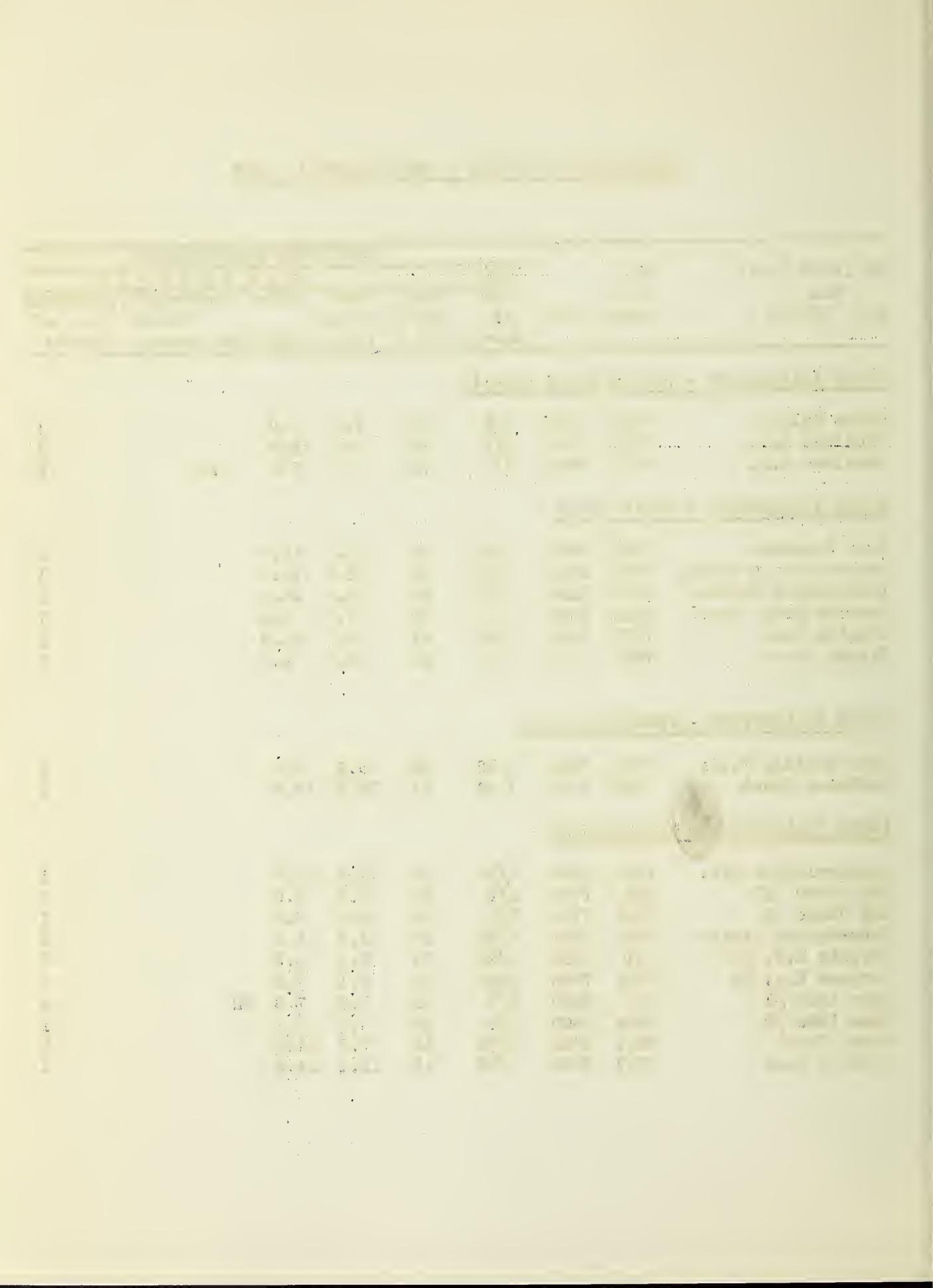
DRAINAGE BASIN and SNOW COURSE	No or State	Elev. of Survey (In.)	SNOW COVER MEASUREMENTS						
			1957 Date	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	Past record		
							1938-52 Yrs. of 1955	Average	Record
<u>LOWER YELLOWSTONE - POPO AGIE RIVER</u>									
Blue Ridge	8G2	9500	2/26	30	7.1	16.0	NR	9.9**	16
Bruce's Camp	8G5	6500	2/26	T	0.0	1.0			1
Hobbs Park	9G3	10000	2/24	47	13.1	20.8	10.3	17.7	8
Mosquito Park R.S.	9G4	9500	2/24	20	4.4	9.1	5.4	7.4*	13
Sawmill Glade	8G1	8500	2/26	18	3.9	8.5	7.2	6.0**	17
South Pass	8G3	9000	2/26	42	10.8	18.3	11.7	11.6**	16
St. Lawrence R.S.	9F11	9000	2/23	20	4.0	9.8	3.7	6.3*	13
Trout Creek	9G2	8400	2/23	14	3.5	5.6	4.5	5.6*	8
<u>LOWER YELLOWSTONE - OWL CREEK</u>									
Beavers Mill	9F2	8900	2/25	19	3.5	NR	5.7	7.4*	7
Owl Creek	8F1	8700	2/25	13	2.9	5.6	2.6	4.9*	8
<u>LOWER YELLOWSTONE - GREYBULL RIVER</u>									
Timber Creek #2	9E3	8800	2/26	10	2.6	2.9	2.0	2.8*!	8
Wool River #2	9F1	8000	2/26	19	4.1	5.2	2.8		2
<u>LOWER YELLOWSTONE - SHOSHONE RIVER</u>									
East Entrance	10E6	7000	2/28	41	10.9	15.2	7.1	11.6*	8
Sylvan Pass	10E5	7100	2/28	46	12.7	18.9	7.0	13.3*	13
<u>LOWER YELLOWSTONE - NOWOOD CREEK</u>									
Cold Springs Camp	7E25	8700	3/2	19	3.8	7.0			1
Medicine Lodge Lakes	7E24	9500	3/2	29	7.1	11.4			1
Munkres Pass	7E8	9700	3/4	31	6.5	9.7	NR		2

* Timber Creek #1 abandoned. Timber Creek #2 average obtained from relationship of old and new course.



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	Date of Survey	SNOW COVER MEASUREMENTS					
			1957	Snow Depth (In.)	Water Content: (In.)	Water Content (In.)	P a s t R e c o r d	
			1956	1955	1956	1955	1938-52 Yrs. of Average Record	
<u>LOWER YELLOWSTONE - NOWOOD CREEK (Con't)</u>								
Onion Gulch	7E27	8100	3/4	34	7.0	9.9		1
Tensleep Lake	7E26	9075	3/1	30	7.4	11.0		1
Tensleep R.S.	7E7	8300	3/1	23	5.1	7.9	4.5	2
<u>LOWER YELLOWSTONE - SHELL CREEK</u>								
Bald Mountain	7E21	9600	2/23	48	13.0	16.8		1
Beaver-Tongue Divide	7E20	9200	2/23	44	12.0	16.7		1
Bone-Spring Divide	7E18	9200	2/25	42	11.7	14.8		1
Granite Creek Camp	7E22	7800	3/3	12	3.0	5.2		1
Granite Pass	7E17	8950	2/25	41	12.1	14.6		1
Ranger Creek	7E4	8800	3/3	27	6.1	9.4		2
<u>LOWER YELLOWSTONE - PORCUPINE CREEK</u>								
Five Springs Falls	7E31	7500	2/28	15	3.2	4.4		1
Medicine Wheel	7E30	9000	2/24	41	10.5	12.4		1
<u>LOWER YELLOWSTONE - TONGUE RIVER</u>								
Beaver-Tongue Div.	7E20	9200	2/23	44	12.0	16.7		1
Big Goose #1	7E2	7700	3/2	10	3.7	4.0		5
Big Goose #2	7E32	7700	3/2	20	4.5	7.6		1
Bone-Spring Divide	7E18	9200	2/25	42	11.7	14.8		1
Burgess R.S. #1	7E1	7900	2/24	19	3.9	5.1		5
Burgess R.S. #2	7E33	7900	2/24	18	4.1	6.6		1
Dome Lake #1	7E3	8800	3/3	18	3.8	7.8	NR	6
Dome Lake #2	7E34	8800	3/3	26	7.0	9.0		1
Gloom Creek	7E14	9300	2/26	31	7.6	11.0		1
Granite Pass	7E17	8950	2/25	41	12.1	14.6		1



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	Date of Survey (In.)	SNOW COVER MEASUREMENTS				
			1957	: Past record			
			Snow Depth (In.)	Water Content (In.)	Water Content (In.)	Previous 1938-52 Yrs. of 1956 1955 Average	Record

LOWER YELLOWSTONE - TONGUE RIVER (Con't)

North Tongue	7E15	8800	2/24	21	4.5	10.6		1
Sibley Lake	7E11	8000	2/27	25	5.7	8.3		1
Sucker Creek	7E12	9000	2/26	30	7.0	9.7		1
Steamboat Point	7E10	7500	2/27	14	3.8	6.6		1
Wood Rock G.S.	7E13	8500	2/26	30	7.2	9.6		1

LOWER YELLOWSTONE - POWDER RIVER

Muddy Creek G.S.	7E28	7800	3/4	11	2.0	5.2		1
Munkres Pass ^d	7E8	9700	3/4	31	6.5	9.7	NR	2
Onion Gulch	7E27	8100	3/4	34	7.0	9.9		1
Soldier Park	7E5	8700	3/5	13	1.7	8.4	NR	4.3*
Sour Dough	7E6	8500	5/5	27	4.1	9.6		1

NORTH PLATTE - SWEETWATER

Grannier Meadows #1	8G4	9000	2/26	45	10.7	16.6	12.5	11.5	20
South Pass	8G3	9000	2/26	42	10.8	18.3	11.7	11.6**	16

NORTH PLATTE - LARAMIE RIVER

Brooklyn Lake #1	6H1	10200	2/26	66	23.4	26.2	13.0	17.9	20
Brooklyn Lake #2	6H13	10200	2/26	63	21.2	24.4			1
Cameron Pass ^c	5J1	10300	3/1	54	19.0	24.2	13.0	18.5	20
Deadman Hill ^c	5J6	10200	3/1	36	12.0	17.8	8.5	11.4	20
Fox Park	6H12	9200	2/27	31	7.4	8.5	4.1	5.5	20
Hairpin Turn #2	6H2	9500	2/25	38	11.5	13.8	5.5	9.2	19
Libby Lodge #2	6H3	8700	2/26	34	10.2	12.1	5.3	8.3	19

WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1957

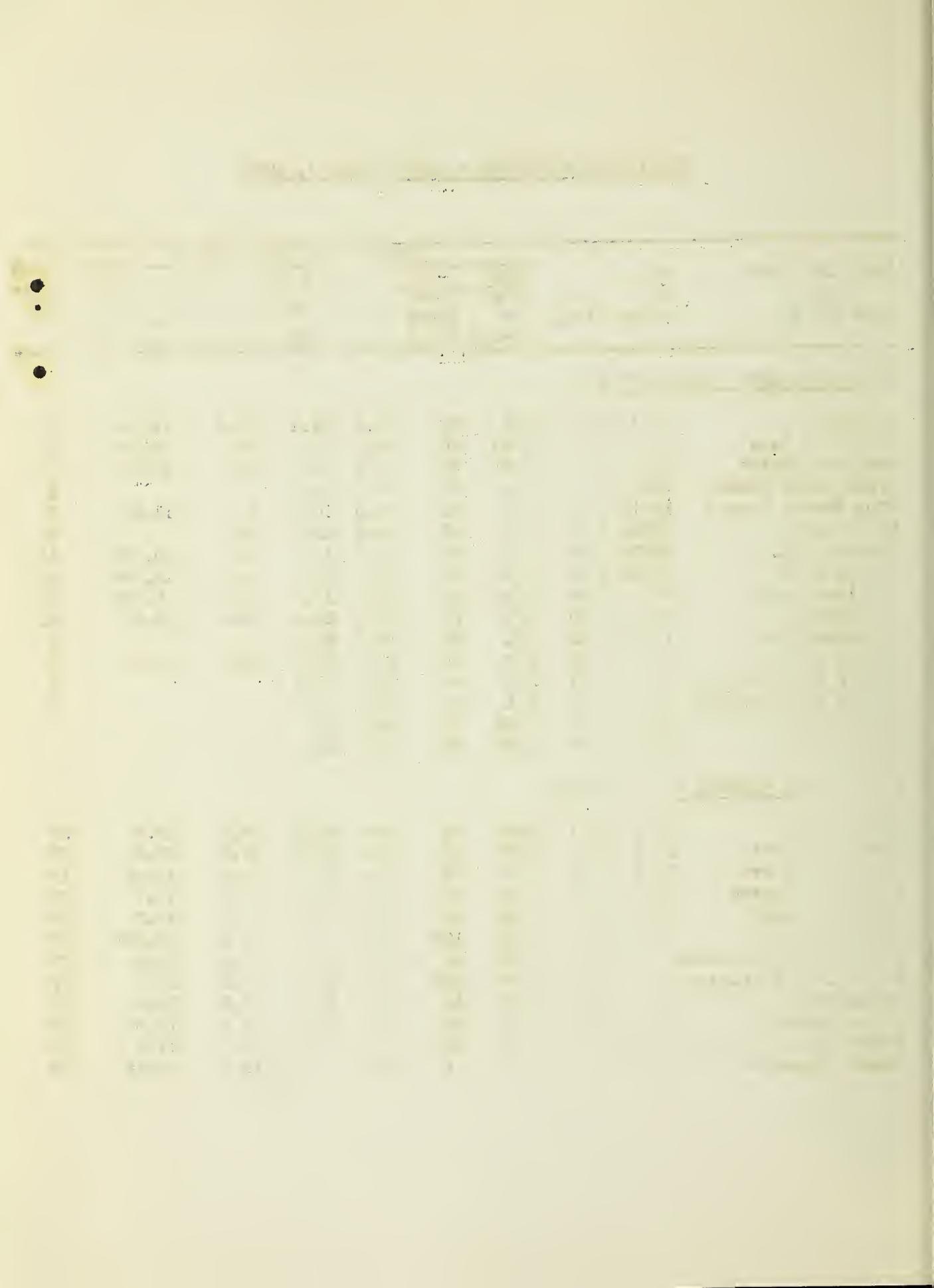
DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	1957 Date	SNOW COVER MEASUREMENTS					Past Record Water Content (In.)	Previous 1951-52 Yrs. of Survey (In.)	1956	1955 Average	Record
			of Depth	Content	1956	1955						

UPPER COLORADO - GREEN RIVER

Big Park	10G11	8700	3/3	59	15.6	25.1	13.3	19.3*	5			
Dutch Joe R.S.	9G5	8700	2/28	34	8.3	9.3	NR	8.1*	5			
East Rim Divide	10F17	7100	2/24	33	9.3	12.3	6.1	10.3**	17			
Green River Lakes	9F16	8100	3/6	21	4.1	5.5			1			
Gros Ventre Summit	10F19	8750	3/5	42	9.0	14.5	9.7	11.2*	9			
Kelly R.S.	10G12	8200	3/3	53	14.2	22.3	NR		2			
Kendall R.S.	10F15	7000	5/5	33	8.0	11.0	6.6	10.7**	16			
Loomis Park	10F16	8500	2/25	53	15.8	20.3	10.4	15.3**	16			
Mulligan Park	9G1	8900	2/26	35	9.7	11.0	4.4	9.9**	15			
Oil Pattle /	6H10	9200	3/1	90	33.2	32.6	19.6	25.5	20			
Piney-LaBarge	10G10	8920	3/1	53	16.0	24.4			2			
Poison Meancross	10G6	8600	3/2	85	25.9	41.3	16.4	25.6*	9			
Snyder Basin R.S. #1	10G9	8040	3/1	46	13.8	17.1			1			
Snyder Basin R.S. #2	10G13	8010	3/1	49	13.4	18.8			1			
South Lake	10G14	8300	2/28	51	15.1	NR						
Triple Peaks	10G15	8600	2/28	75	23.9	NR						

SNKE RIVER - ABOVE JACKSON LAKE

Achorage***	10F1	6850	2/27	62	18.8	26.1	12.5	15.8	27			
Astor Creek***	10E8	7700	2/27	97	29.8	44.5	20.1	26.8	27			
Bone Creek / ***	10F2	6900	3/2	59	18.4	23.7	12.3	18.0*	10			
Cruttler Creek***	10E10	7600	2/28	76	23.4	23.0	13.4	19.7	27			
Glendo Creek***	10E15	7800	2/28	72	23.1	26.0	14.9	19.7	27			
Grassy Lake /	10F16	7205	2/28	100	35.8	42.3	25.2	29.2**	17			
Huckleberry Divide***	10E14	7900	2/27	64	18.1	26.2	13.2	16.9	27			
Lewis Lake Divide***	10E9	7900	2/27	119	41.1	61.5	26.9	35.5	27			
Moran***	10F4	6110	2/28	41	12.1	16.3	7.8	10.4	27			
Moran Bay***	10F3	6100	2/27	65	20.1	27.2	12.6	18.6	27			
Snake River Station***	10F12	6100	2/27	67	20.7	23.2	13.8	17.4	27			
Thumb Divide***	10F7	7900	2/27	74	19.8	33.1	16.0	22.1*	10			



WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	1957 Date of Survey (In.)	SNOW COVER MEASUREMENTS						Previous Record
			1956	1955	1955 Average	1936-52	Yrs. of Record	Previous Record	

NORTH PLATTE - LARAMIE RIVER (Con't)

McIntyre ^c	5J15	9100	2/28	50	12.4	14.4	5.6	9.8*	8
Pole Mountain #2	5H1	8700	2/25	22	6.0	6.3	4.5	4.3	21
Roach ^c	6J8	8900	3/1	57	16.8	22.7	13.5	15.1**	17

NORTH PLATTE - CROW CREEK

Pole Mountain #2	5H1	8700	2/25	22	6.0	6.3	4.5	4.3	21
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NORTH PLATTE - ABOVE SEMINOE RESERVOIR

Albany	6H11	9400	2/25	43	13.5	16.6	8.3	12.6*	8
Bottle Creek	6H3	8200	3/1	51	16.2	15.6	10.0	11.4	19
Boxelder	5G1	9000	3/1	20	5.2	3.7	5.3	4.7*	7
Cameron Pass ^c	5J1	10300	3/1	54	19.0	24.2	13.0	18.5	20
Casper Mountain	6G1	8700			8.1				1
Columbine ^c	6J3	9300	2/28	71	23.9	27.4	20.7	18.4	21
Fox Park	6H12	9200	2/27	31	7.4	8.5	4.1	5.5	20
La Bonte	5G2	8450	2/28	21	4.9	4.5	5.8	5.8*	8
North Barrett Cr.	6H5	9400	2/27	61	17.8	19.6	13.2	15.2	20
North French Creek#1	6H4	10200	2/27	80	27.9	29.2	19.0	23.2	19
Northgate ^c	6J7	8500	2/28	31	7.3	7.5	4.0	5.4*	7
Old Battle	6H10	9800	3/1	90	33.2	32.6	19.6	25.5	20
Park View ^c	6J2	9200	2/28	39	9.3	9.7	5.1	7.7	21
Ryan Park #2	6H6	8400	2/28	48	11.7	13.0	9.0	8.8	20
Spring Creek	6H7	9000	(Abandoned)						
Webber Spring	6H9	9000	3/1	59	19.5	19.2	12.2	14.9	19
Willow Creek Pass ^c	6J5	9500	2/28	49	13.2	13.6	7.8	10.7	19

NORTH LARAMIE MOUNTAINS

Boxelder	5G1	9000	3/1	20	5.2	3.7	5.3	4.7*	7
Casper Mountain	6G1	8700			8.1				1
La Bonte	5G2	8450	2/28	21	4.9	4.5	5.8	5.8*	8

MISSOURI - CHEYENNE RIVER

Upper Spearfish ^s	3E1	6500	2/28	21	5.4	4.1	7.0	5.5*	13
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WYOMING SNOW SURVEYS - ABOUT MARCH 1, 1957

DRAINAGE BASIN and SNOW COURSE	No. or State Elev.	1957 Date of Survey (In.)	SNOW COVER MEASUREMENTS					: Past Record Water Content (In.) 1938-52 1956 1955 Average	Previous Yrs. of Record
			Snow Depth (In.)	Water Content (In.)	1938-52	1956	1955		

JACKSON LAKE TO PALISADES

Afton R.S.	10G4	6200	2/27	13	4.2	4.6	4.1	4.6	21
Blackrock	10F7	8600	2/27	57	16.1	27.5	12.5	20.7*	7
Bryan Flat	10F14	6250	3/1	27	8.3	11.1	5.0	8.9	21
CCC Camp	10G7	7500	2/27	40	11.4	13.2	7.6	9.7	21
East Rim Divide	10F17	7950	2/24	33	9.3	12.8	6.1	10.3**	17
Four Mile Meadows	10F6	7770	3/1	44	10.4	16.9	7.0	12.4*	7
Greys Boundary	10F18	5800	2/27	28	8.5	11.5	7.9	10.6	21
Gros Ventre Summit	10F19	8750	3/5	42	9.0	14.5	9.7	11.2*	9
Grover Park Divide	10G3	7500	2/28	33	9.9	13.1	6.9	9.8	21
Loomis Park /	10F16	8500	2/25	53	15.8	20.8	10.4	15.3**	16
Poison Meadows	10G6	8500	3/2	85	25.9	40.3	16.4	25.6*	9
Salt River Summit	10G8	7900	2/27	50	14.6	18.2	7.9	13.8*	9
Snow King Mtn. #1	10F11	7600	3/2	37	9.2	14.7	5.9	10.4*	7
Snow King Mtn. #2	10F12	7200	3/2	31	9.0	12.7	5.8		3
Teton Pass #2	10F13	8500	2/26	91	28.4	42.4	18.1	31.8*	12
Togwotee Pass	10F9	9600	2/28	73	22.6	36.2	19.4	27.6*	7
Turpin Meadows	10F5	6930	3/1	39	10.1	14.1	6.1	10.6*	7
Yellowjacket	10F10	7675	3/4	21	4.5	NR	3.5	5.2**	15

FERD RIVER

Big Park	10G11	8700	3/3	59	15.6	25.1	13.3	19.3*	5
CCC Camp	10G7	7500	2/27	40	11.4	13.2	7.6	9.7	21
Kelly R.S.	10G12	8200	3/3	53	14.2	22.5	NR		2
Monte Cristo, R.S. ^u	10H12	8360	2/28	67	20.9	NR	16.8		8
Poison Meadows	10G6	8500	3/2	85	25.9	41.3	16.4	25.6*	9
Salt River Summit	10G8	7900	2/27	50	14.6	18.2	7.9	13.8*	9

* Average of all past data.

** Average is for less than 15 years of record in the 1938-52 period.

*** Mar., 1930-1950 water contents estimated from Feb. 15 and Mar. 15 snow surveys and Snake River Station climatological data.

c. Colorado snow courses

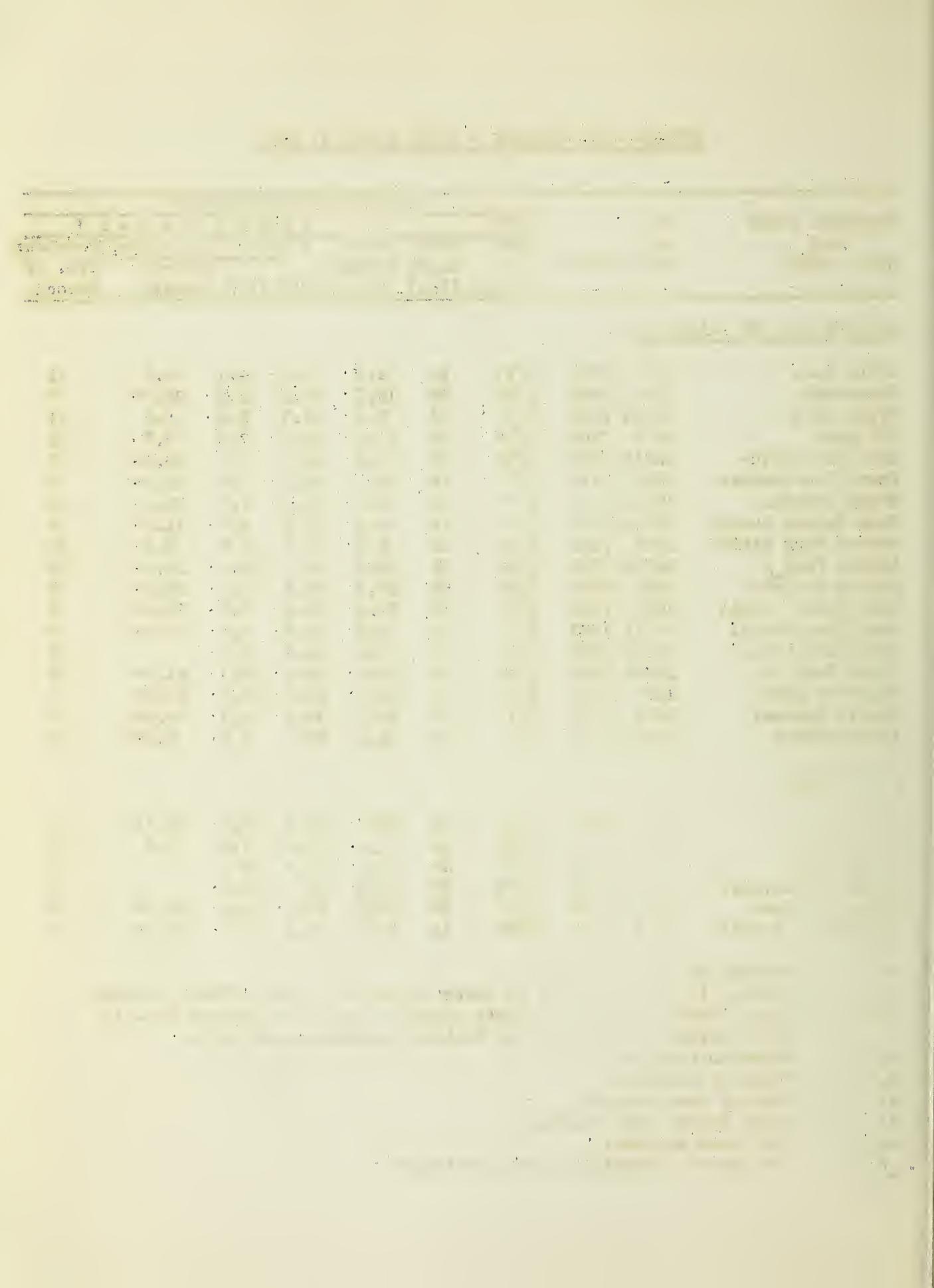
d. Formerly Muddy Pass

m. Montana snow courses.

s. South Dakota snow courses.

u. Utah snow courses.

/ Not located directly on this drainage.



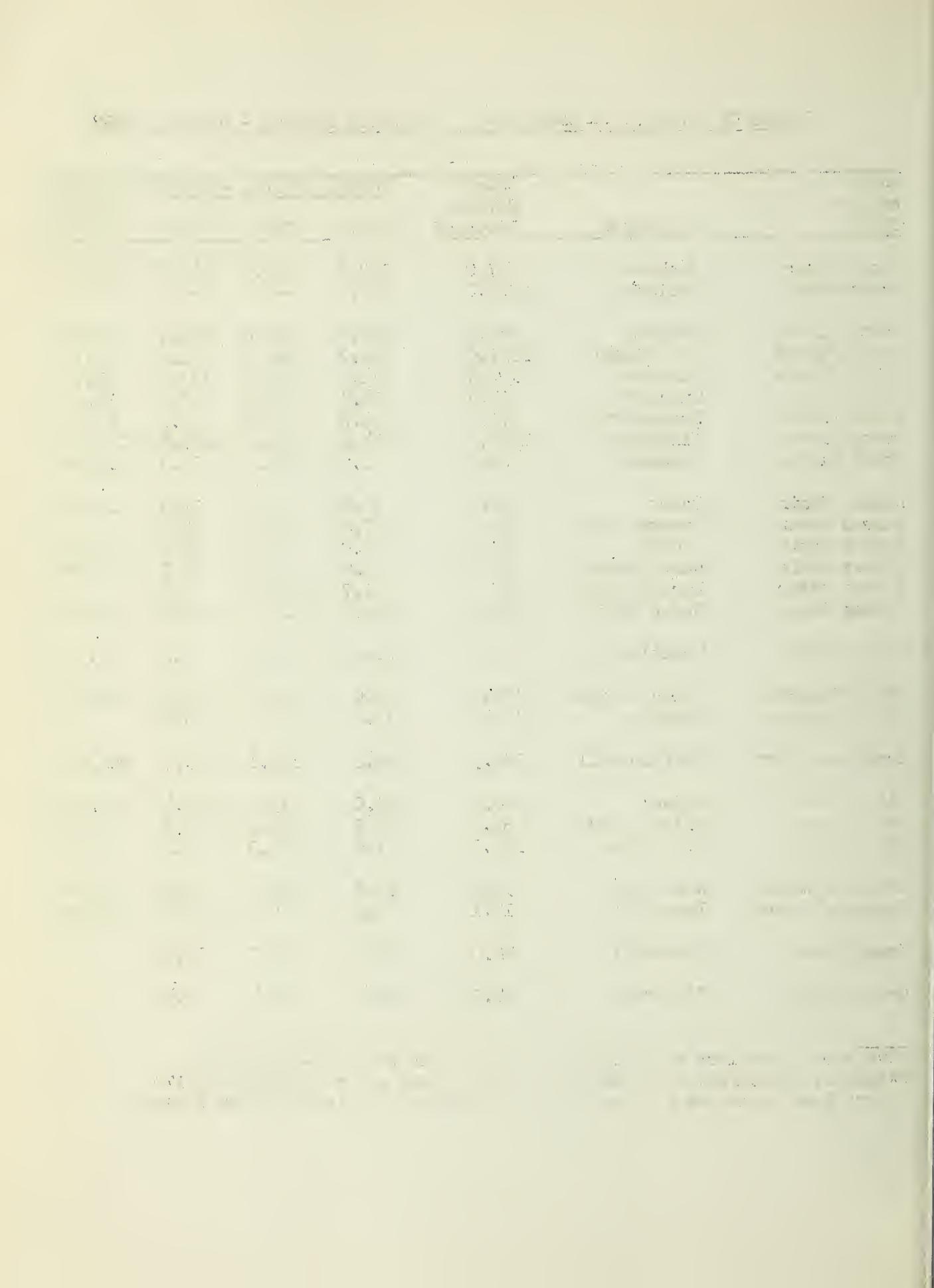
STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - MARCH 1, 1957

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET			
			1957	1956	1955	15-Yr-Avg 1938-52
Snake River	Jackson	847.0	119.6	379.8	442.6	188.7
Snake River	Palisade	1202.0	376.7	--	--	--
North Platte	Seminoe	981.8	267.2	231.0	291.7	351.0*
North Platte	Pathfinder	1011.0	244.2	406.3	442.1	415.1*
North Platte	Alcova**	190.5	171.6	164.1	113.9	81.7
North Platte	Guernsey	39.8	39.5	29.5	17.5	36.6
North Platte	Sutherland	70.0	32.0	47.6	51.1	49.6
North Platte	Kingsley	1900.0	614.4	871.3	1150.9	1125.6
North Platte	Minatare	60.8	1.9	15.6	14.3	17.8*
Kansas Basin	Bonny	39.9	36.0	38.9	37.3	19.6*
Kansas Basin	Swanson Lake	116.1	77.9	57.9	30.1	
Kansas Basin	Enders	36.0	32.0	42.4	36.2	20.3*
Kansas Basin	Harry Strunk	33.9	23.9	27.2	28.3	25.4*
Kansas Basin	Harlan County	252.9	51.7	179.7	76.3	
Kansas Basin	Cedar Bluff	176.8	112.0	128.1	86.3	157.3*
Laramie River	Wheatland	95.0	N.R.	3.0	1.4	35.7
Belle Fourche	Belle Fourche	185.2	37.0	78.2	58.2	102.9*
Belle Fourche	Keyhole	190.3	12.8	19.6	4.8	
Shoshone River	Buffalo Bill	380.3	128.2	122.1	139.7	264.6
Wind River	Boysen	560.0	220.0	13.1	315.4	122.0*
Wind River	Pilot Butte	31.6	14.3	14.6	14.7	14.5*
Wind River	Bull Lake	152.0	67.8	62.3	63.1	56.5*
Cheyenne River	Angostura	92.0	27.8	74.9	33.5	44.0*
Cheyenne River	Deerfield	15.1	8.2	9.9	10.5	13.5*
Grand River	Shadehill	84.0	75.4	70.1	75.9	
Green River	Big Sandy	38.3	10.2	6.4	9.4	

*Average is for less than 15 years of record in the 1938-52 period.

**Alcova, downstream from Seminoe and Pathfinder and containing 160,170

Acre Feet of active storage that is unavailable to the Kendrick Project.



The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

STATE

State Engineer of Wyoming

FEDERAL

U.S. Department of Agriculture
Forest Service

U.S. Department of Commerce
Weather Bureau

U.S. Department of the Interior
Bureau of Reclamation
National Park Service
Geological Survey

PRIVATE

Wheatland Irrigation District

Federal - State - Private
COOPERATIVE SNOW SURVEYS

—
Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

—
“WATER IS THE WEST'S GREATEST RESOURCE”